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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Toshio TAKAGI et al.**

Group Art Unit: 1723

Serial No.: 10/019,297

Examiner: **Terry K. Cecil**

Filed: **May 7, 2002**

Confirmation No.: 8814

For: **SHOWER HEAD WITH WATER PURIFICATION FUNCTION**

Attorney Docket Number: **011700**

Customer Number: **38834**

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. §1.97(c)

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

October 21, 2004

Sir:

Applicants direct the attention of the Patent and Trademark Office to the documents listed on the attached Form PTO-1449. A copy of each listed document is attached.

This Information Disclosure Statement is being submitted after issuance of a first official action on the merits and expiration of the three month period following the filing date or the entry of the national stage for the above-captioned application, but prior to issuance of either a final official action or a Notice of Allowance. A check is attached hereto which covers the \$180.00 fee set forth in 37 C.F.R. §1.17(p).

10/22/2004 RFEKADU1 00000012 10019297

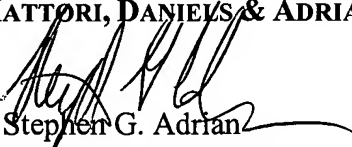
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Information Disclosure Statement under 1.97(d)
Attorney Docket No. 011700
Serial No. 10/019,297

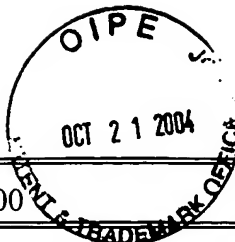
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Enclosures: PTO-1449
References (27)
Tables 1-3
Check for \$180.00



INFORMATION DISCLOSURE CITATION PTO-1449	Atty. Docket No. 011700	Serial No. 10/019,297
	Applicant(s): Toshio TAKAGI et al.	
	Filing Date: May 7, 2002	Group Art Unit: 1723

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Name	Date	Class	Subclass	Filing Date (If appropriate)
	5,823,229	Bertrand et al	10/98			
	5,169,528	Karbachsch et al	12/92			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation (Yes or No)
	11-333328	12/1999	Japan	Abstract
	11-138055	05/1999	Japan	Abstract
	09-192043	07/1997	Japan	Abstract
	11-113775	04/1999	Japan	Abstract
	11-009485	01/1999	Japan	Abstract
	09-299832	11/1997	Japan	Abstract
	08-299855	11/1996	Japan	Abstract
	3007614	11/1994	Japan	Abstract
	03-154685	07/1991	Japan	Abstract
	60-220183	11/1985	Japan	Abstract
	2000-116561	04/2000	Japan	Abstract
	62-254859	11/1987	Japan	Abstract

Information Disclosure Statement under 1.97(d)

Attorney Docket No. 011700

Serial No. 10/019,297



FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation (Yes or No)
	7-11798	03/1995	Japan	Abstract
	10-043079	02/1998	Japan	Abstract
	2572801	03/1998	Japan	Abstract
	8-009254	03/1996	Japan	Abstract
	08-004068	01/1996	Japan	Abstract
	2001-212018	08/2001	Japan	Abstract
	2564625	11/1997	Japan	Abstract
	2002-348924	12/2002	Japan	Abstract
	2002-346552	12/2002	Japan	Abstract
	2002-115292	04/2002	Japan	Abstract
	2002-106006	04/2002	Japan	Abstract
	11-309450	11/1999	Japan	Abstract
	2001-162270	06/2001	Japan	Abstract
	2002-018209	01/2002	Japan	Abstract
	11-267635	10/1999	Japan	Abstract

OTHER DOCUMENTS

Examiner		Date Considered

Table 1 Shower head with water purifier

Publication number	Feature	Remark
The purification material arranged in a holding part.		
特開平11-333328 [JP11-333328A (1999)]	A flow path change valve is arranged to the up-stream side of a purification material. The delivery flow path change valve is not to possess.	
特開平11-138055 [JP11-138055A (1999)]		
特開平09-192043 [JP09-192043A (1997)]		
特開平11-113775 [JP11-113775A (1999)]	A flow path change valve is arranged to the up-stream side of a purification material. It suggest A delivery flow path change valve, is arranged to a head part.	Sent out on 2002.2.18
特開平11-009485 [JP11-009485A (1999)]	A flow path change valve is arranged between a head part and a holding part. The delivery flow path change valve is not to possess.	Sent out on 2002.2.18
特開平09-299832 [JP09-299832A (1997)]		
特開平08-299855 [JP08-299855A (1996)]	The flow path change valve is not to possess.	Sent out on 2002.2.18
登実3007614 [JP3007614U]	A flow path change valve is arranged to the up-stream side of a purification material. The delivery flow path change valve is not to possess.	Sent out on 2002.2.18
特開平03-154685 [JP03-154685A (1991)]	A delivery flow path change valve is arranged in a head part. (the purifier is a direct connect type for a faucet)	
特開昭60-220183 [JP60-220183A (1985)]		
US005858215A US005823229A	A flow path change valve is arranged to the down-stream side of a purification material. A delivery flow path change valve is arranged in a head part.	Ref. of O.A. (*)
The purification material arranged in a head part		
特開2000-116561 [JP2000-116561A]	A flow path change valve is arranged in a head part.	
特開昭62-254859 [JP62-254859A (1987)]		
実公平07-011798 [JP07-011798Y (1995)]	A flow path change valve is not to possess	
実登2564625 [JP2564625Y]		

特開平10-043079 [JP10-0043079A (1998)] 実登2572801 [JP2572801Y]	A flow path change valve and a delivery flow path change valve are not to possess. The purification material is arranged in a head part and a holding part.	Sent out on 2002.2.18
実公平08-009254 [JP08-009254Y]	A flow path change valve is not arranged. A delivery flow path change valve is arranged.	Sent out on 2002.2.18
The purification material do not arranged		
特開平08-004068 [JP08-004068A (1996)]	A delivery flow path change valve and a switch type operating parts are arranged in a head part.	

(*); Ref. of O.A.=Reference of Office Action

Table 2 Automatic cleaning

Publication number	Feature	Remark
特開2001-212018 [JP2001-212018A] (US2002/0152549A1)	Purification material is accommodated in a holding part. A flow path change valve is arranged to the down-stream side of a purification material.	Rated filing. Un-opening of the document of TAKAGI et al. at the filing.
特開2002-348924 [JP2002-348924A] 特開2002-346552 [JP2002-346552A]	Purification material is accommodated in a holding part. A flow path change valve is arranged to the down-stream side of a purification material.	Rated filing. Opening of the document of TAKAGI et al. at the filing.
特開2002-115292 [JP2002-115292A] 特開2002-106006 [JP2002-106006A]	A flow path change valve is arranged in a head part. A flow path change valve is arranged in a head part. The entrance of purification material is cleaned by the raw water flow in the raw water flow path.	Rated filing. Un-opening of the document of TAKAGI et al. at the filing.

Table 3 Water purification cartridge

Publication number	Feature	Remark
特開平11-267635 [JP11-267635Y (1999)]	Flow path makes axial direction only.	Prior filed.
特開平11-309450 [JP11-309450Y (1999)]	Pipe-like purification material of two layers of activated carbon and ceramic particle	Un-opening at the filing of TAKAGI et al.
特開平2001-162270 [JP2001-162270A]	It has pillar form purification material. Raw water is introduces from the outer surface side of an outer cage, and clean water flows out from the inside in an inner cage.	Rated filing. Un-opening of the documents of TAKAGI et al. at the filing.
特開平2002-018209 [JP2002-018209A]	It has pipe-like purification material. Raw water is introduces from the outer surface side, and clean water flows out from the Inner surface.	
US005169528A	It has the cylinder form cartridge. The cylinder form cartridge with purification material went into the case with a slit	Prior filed
US005252206A	Purification material has the double cylinder structure.	Prior filed Ref. of O.A. (*)
US005823229A	It has flat truncated cone type cartridge. It is form a passage from the outer side surface to the inner side surface. It forms separately each exit, the exit for clean water and the exit for raw water	Prior filed

(*) ; Ref. of O.A.=Reference of the Office Action